



**Fig. 3:** Ranking and significance diagrams of the investigated GasPSes (NEB<sub>N</sub> [Pts./m<sup>3</sup> gas] and IgEYE [-] as median; modified Eco-Indicator 95). The middle column shows the ranking with the corresponding indicator value. The significance is indicated for each comparison as the probability of the actual ranking (P(X>0) in %).

#### 4 Summary

The defined performance indicators and the adapted evaluation methods allow an integrated evaluation of gas purification systems with respect to their effectiveness and efficiency.

Based on these indicators, various optimisation approaches and their potentials could be identified for the investigated GasPSes. In addition, the ability of the GasPSes to adapt to changes in the pollutant load or waste gas volume was discussed. Finally, the clean air legislation was analysed with respect to their effectiveness and efficiency. A simplified LCA for the evaluation of GasPSes was proposed in the thesis.

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#### Reference

MEIER, M.A. (1997): Eco-Efficiency Evaluation of Waste Gas Purification Systems in the Chemical Industry; LCA documents, Vol. 2 (edited by Walter Klöpffer and Otto Hutzinger); Ecoinforma Press, Bayreuth (Germany)

### New LCA Theses: Announcement

#### Spatial Differentiation in Life Cycle Impact Assessment

#### A Framework, and Site-Dependent Factors to Assess Acidification and Human Exposure\*

José Potting

IPU/LCC-DTU Building 424, DK-2800 Lyngby, Denmark; e-mail: [jp@ipt.dtu.dk](mailto:jp@ipt.dtu.dk)

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\* Josepha Maria Barbara (José) Potting got her doctorate at the University of Utrecht, March 8th, 2000, 15.30 o'clock.